- 79 -

ABSTRACT

A method of rectifying a stereoscopic image consisting of left and right captured images comprises determining left and right rectification transformations. According to one aspect of the invention, statistics of the parameters of the stereoscopic image capture device used to capture the left and right images are used in the determination of the left and/or right rectification transformation.

According to another aspect of the invention, the left and right rectification transformations are constrained to correspond to a transformation to a virtual alignment to a parallel camera set-up.

Once the left and right rectification transformations have been determined they are preferably used to rectify the left and right images to eliminate, or substantially eliminate, vertical disparity from the rectified image pair. The left and right rectified images may then be displayed on a stereoscopic display device for viewing by an observer, or they may alternatively be stored for later use.